

# SEQUENCE LISTING

<110> Delcayre, Alain

<120> Compositions isolated from *M. vaccae* and  
their use in modulation of immune responses.

<130> 11000.1047c2

<150> US 10/051,325

<151> 2002-01-18

<150> US 09/455,960

<151> 1999-12-06

<160> 31

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<212> DNA

<213> *Mycobacterium vaccae*

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gccgcccgg	tcgacgagtc	ctatttcggc	aagcgtcatt	tcgcgaggag	ggcgccaggg	360
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cttcgcgatg	ctgtggctca	acaaggccgt	cgccaccgac	gccgaccggg	tcgccaccgc	180
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gcggactcac	cgtgatcggc	gtgccgtgca	accagtccat	ggggcaggag	cccgggaccg	480
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g t g c g g c t g a	c g g t g t c g g c	c e g g c a g c t g	a g c c g c c c g g	g t c c c c g g c a	a a c c c t g t c t c	600
g a c g c c g t c g	a a c t g g c g a t	g c t g c a c t c g	g g c g c g g c c a	c g g t c t a c c g	g t g g c a c c c c	660
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c g c g g c c g a a	g c g t g g t g a t	c g t c g a c c a g	g a g a a c g c g g	c c a a t g t c g g	c g g c c a g g c g	120
t t c t g g t c g t	t c g g c g g g c t	g t t c t t c g t c	g a c a g c c c g g	a g c a g c g g c g	c a t g g g c a t c	180
c g g g a c a g t c	a c g a g c t c g c	g c t g c a g g a c	t g g t c g g c t	c g g c c g g g t t	c g a c c g g c c c	240
g a g g a c c a c t	g g c c g c g g c t	g t g g g c c c a c	g c c t a c g t c g	a c t t c g c c g c	c g g c g a g a a g	300
c g c a g c t g g c	t g c g c g a g c g	c g g t c t g c a g	a c c t t c g c g c	t g g t c g g c t g	g g c c g a a c g c	360
g g c g g c t a c g	g g g c c a a c g g	g c a c g g c a a c	t c g g t g c c g c	g c t t c c a c a t	c a c g t g g g g c	420
a c c g g g c c c g	c g c t g g t c g a	c a t c t t c g c g	c g g c g g t t g a	c c g g g g t g c c	g c g g g t g c g g	480
t t c g t c c a c c	g g c a c c g g g t	g g a c g a g c t g	a t c g t c g a g g	a c g g t g c g g t	g g t c g g g g t g	540
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g t c g g c g a c t	t c g a g a t g c g	g g c g c a g g c g	g t g a t c g t g g	c c a g c g g c g g	g a t c g g g g g c	660
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c t c a g c g g t g	t g c c c g c g c a	c g t c g a c g g a	c g c a t g c t g c	a g a t c t c g g a	g a c c g c g g g t	780
g c c a g c g t c a	t c a a c a a a g a	c c g g a t g t g g	c a c t a c a c c g	a g g g c a t c a c	c a a c t a c g a c	840
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Phe	Gln	Pro	Leu	Leu	Tyr	Gln	Cys	Ala	Thr	Gly	Thr	Leu	Ser	Ile	Ala		
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His	Ile	Ser	Arg	Pro	Leu	Arg	Glu	Glu	Phe	Ala	Arg	Tyr	Pro	Asn	Ile		
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Arg	Thr	Leu	Leu	Gly	Lys	Ala	Val	Glu	Ile	Asp	Pro	Asp	Arg	Arg	Val		
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Val	Thr	Ala	Met	Arg	Pro	Asp	Glu	Ser	Thr	Phe	Thr	Leu	Asp	Tyr	Asp		
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Gln	Thr	Phe	Cys	Ser	Thr	Thr	Tyr	Asp	Val	Thr	Phe	Pro	Leu	Leu	Glu
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Lys	Thr	Asp	Val	Asn	Gly	Pro	Gly	Arg	His	Pro	Leu	Tyr	Ala	Glu	Leu
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Thr	Leu	Pro	Ala	His	Glu	Ala	Asn	Leu	Arg	Leu	Met	Ala	Ala	Asp	Arg
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Thr	Val	Arg	Ala	Arg	Val	Leu	Gly	Ile	Gly	Gly	Gly	Phe	Leu	Ala	Glu
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Pro	Trp	Trp	Cys	Arg	Thr	Leu	Val	Leu	Ala	Ala	Glu	Arg	Thr	Ala	Arg
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215

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